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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,344	10/29/2003	Christian Schmid	200315617-1	8104
22879	7590	08/25/2005	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			SHAH, MANISH S	
		ART UNIT		PAPER NUMBER
				2853

DATE MAILED: 08/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/696,344	SCHMID ET AL.	
	Examiner Manish S. Shah	Art Unit 2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-26 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10/29/03;6/7/05</u> | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: ____ . |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pentel KK (# JP 63-061065) in view of Lavery et al. (# US 6319309).

Pentel KK discloses a highlighter ink composition including (a) from 2 to 17 wt% of coloring material (b) from 65 to 85 wt% of an organic solvent; and (c) from 0.5 to 3 wt% of acid compound, wherein acid compound is ascorbic acid and coloring material is dye or pigment (see Abstract).

Pentel KK differs from the claim of the present invention in that (1) the acid buffer has a pKa from 2 to 6, more preferably 4 to 6, and acid buffer is succinic acid. (2) The colorant is selected from Acid Red 52 and Acid Blue 9. (3) The liquid vehicle includes a member selected from water, diethylene glycol, and propylene glycol.

Lavery et al. teaches that to get the water fastness printed image, ink composition includes the organic acids compound having an acid dissociation constant (pKa) from 2 to 6, more preferably 4 to 6 (column: 1, line: 45-50), and acid buffer is succinic acid (column: 4, line: 10-15). They also teaches that the colorant is selected from Acid Red 52 and Acid Blue 9 (column: 6, line: 5-11). They also teaches that the

liquid vehicle includes a member selected from water, diethylene glycol, and propylene glycol (column: 16, line: 1-41).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the acid compound in the highlighter composition of Pentel KK by the aforementioned teaching of Lavery et al. in order to get the water fastness and high optical density printed image.

2. Claims 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Denninger et al. (# US 2004/0110869) in view of Lavery et al. (# US 6319309).

Denninger et al. discloses a method of reducing smear during highlighting including the steps of ink-jet printing an ink jet ink to form an image on a substrate; applying a highlighter composition to the image ([0004]-[0007]), the highlighter composition including an acid buffer ([0020]), a highlighter colorant ([0018]; see Examples), and a liquid vehicle (see Examples), wherein acid buffer is selected from acetic acid and succinic acid (see Examples; [0020]); and highlighter colorant selected from Acid Blue 9 (see Example: 8,13, 20). They also disclose that the acid buffer is configured for reducing mobility of colorants in the inkjet ink upon therewith ([0005]-[0007]).

Denninger et al. differs from the claim of the present invention is that (1) the acid buffer has a pKa from 2 to 6, more preferably 4 to 6.

Lavery et al. teaches that to get the water fastness printed image, ink composition includes the organic acids compound having an acid dissociation constant

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(pKa) from 2 to 6, more preferably 4 to 6 (column: 1, line: 45-50), and acid buffer is succinic acid (column: 4, line: 10-15). They also teaches that the colorant is selected from Acid Red 52 and Acid Blue 9 (column: 6, line: 5-11). They also teaches that the liquid vehicle includes a member selected from water, diethylene glycol, and propylene glycol (column: 16, line: 1-41).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the acid compound in the highlighter composition of Denninger et al. by the aforementioned teaching of Lavery et al. in order to get the water fastness and high optical density printed image.

3. Claims 19-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Denninger et al. (# US 2004/0110869) in view of Lavery et al. (# US 6319309).

Denninger et al. discloses a method of reducing smear during highlighting including the steps of ink-jet printing an ink jet ink to form an image on a substrate; applying a highlighter composition to the image ([0004]-[0007]), the highlighter composition including an acid buffer ([0020]), a highlighter colorant ([0018]; see Examples), and a liquid vehicle (see Examples), wherein acid buffer is selected from acetic acid and succinic acid (see Examples; [0020]); and highlighter colorant selected from Acid Blue 9 (see Example: 8,13, 20). They also disclose that the acid buffer is configured for reducing mobility of colorants in the inkjet ink upon therewith ([0005]-[0007]). They also disclose that the inkjet colorant is selected from pigment or water-

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soluble dye or mixture thereof ([0004]); and the liquid vehicle includes a member selected from water, and propylene glycol (see Examples).

Denninger et al. differs from the claim of the present invention is that the acid buffer has a pKa from 2 to 6, more preferably 4 to 6, and acid buffer is succinic acid.

Lavery et al. teaches that to get the water fastness printed image, ink composition includes the organic acids compound having an acid dissociation constant (pKa) from 2 to 6, more preferably 4 to 6 (column: 1, line: 45-50), and acid buffer is succinic acid (column: 4, line: 10-15). They also teaches that the colorant is selected from Acid Red 52 and Acid Blue 9 (column: 6, line: 5-11). They also teaches that the liquid vehicle includes a member selected from water, diethylene glycol, and propylene glycol (column: 16, line: 1-41).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the acid compound in the highlighter composition of Denninger et al. by the aforementioned teaching of Lavery et al. in order to get the water fastness and high optical density printed image.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manish S. Shah whose telephone number is (571) 272-2152. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Manish S. Shah
Primary Examiner
Art Unit 2853

MSS

8/19/05